Project-based Course Overview

coursera.org/learn/create-your-first-custom-vpc-and-its-components-in-aws/supplement/MhGNK/project-based-course-overview

Welcome!

Welcome to **Create your first custom VPC and Its component**. This is a project-based course which should take approximately 2 hours to finish. Before diving into the project, please take a look at the course objectives and structure:

Course Objectives

In this course, we are going to focus on **three** learning objectives:

1. Create your custom VPC and its components in AWS
2. Understand how Networking works within AWS VPC
3. Create EC2 and Validate the Networking concepts

By the end of this project you will create your custom VPC from scratch along with its associated components such as Subnets, Route Tables, Network Access Control List. You will also create Windows EC2 instances and validate the networking concepts learned during this project.

Course Structure

This course is divided into 3 parts:

1. Course Overview: This introductory reading material.
2. **Create your first custom VPC and its components:** This is the hands on project that we will work on in Rhyme.
3. Graded Quiz: This is the final assignment that you need to pass in order to finish the course successfully.

Project Structure

The hands on project on **Create your first custom VPC and its components** is divided into following tasks:

Task 1:

By the end of this task, you will get basic understanding of overall project and you will also create your first VPC

- Understand AWS Basics
- Understand overall project
- Create your first custom VPC

Task 2:

By the end of this task, you will create internet gateway and subnets

- Create Internet Gateway and attach it to VPC
- Create Public and Private Subnet

Task 3:

By the end of this task, you will create and configure Route tables

- Create Public and Private Route tables
- Configure appropriate route
- Associate Route table with Subnets

Task 4:

By the end of this task, you will create and configure Network Access Control List

- Create Network ACLs for both Public and Private Subnet
- Configure appropriate inbound rule and outbound rules
- Associate Network ACLs with Subnets

Task 5:

By the end of this task, you will create EC2 instance in Public Subnet and will connect to it

- Create EC2 instance in Public subnet
- Generate Key Pairs
- Connect to EC2 instance using RDP

Task 6:

By the end of this task, you will create EC2 instance in Private Subnet and will try connect to it from cloud desktop

- Create EC2 instance in Private subnet
- Generate Key Pairs
- Try to connect to EC2 instance in Private subnet from cloud desktop

Task 7:

By the end of this task, you will connect to EC2 instance in Private Subnet from EC2 instance in Public Subnet.

Connect to EC2 instance in Private Subnet from EC2 instance in Public subnet